

[Book title]*Sustainable Houses and Living in the Hot-Humid Climates of Asia***[Main objectives]**

- To publish a technical book (or used as a supplemental textbook) in the field of building science, focusing especially on the hot-humid climates of Asia.
- This book focuses particularly on indoor thermal comfort, indoor thermal environment, and energy-saving issues in the growing Asian cities.

[Editors]

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[Length of manuscript]

- Approx. 480 printed pages (at 420-440 words per page), including figures and tables, consisting of 50 chapters.

[Important timelines: Submission to the editor]

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| 1. Invitation for revisions to authors | May 2017 |
| 2. <u>Submission of the revised draft (2nd deadline) with copyright</u> | <u>10 July 2017</u> |
| 3. Final checking by editors | Aug 2017 |
| 4. Final submission to Springer | Sep 2017 |

Please submit your revised manuscript by e-mail to each of the corresponding editors:

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[Important notes]

- This book is aimed at residential buildings in hot-humid climates of Asia in particular. The areas of subject in the book are determined not based on the geographical location but on the climate, i.e., hot-humid climates.
- This book is expected to be used as a technical book or a supplemental textbook in Asian countries at the undergraduate or postgraduate levels.
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[Summary]

Today, 35-40% of the world energy are consumed in Asia. Energy consumption has been increasing particularly in the residential sector in line with the rapid rise of middle-class. The majority of growing Asian cities are located in hot-humid climatic regions. There is an urgent challenge for designers to provide healthy and comfortable indoor environments for the occupants without consuming non-renewable energy and resources excessively in the growing tropical Asian cities. This book provides comprehensive principles and detailed research findings that are useful in designing sustainable houses in the rapidly growing Asian cities. Vernacular houses in different Asian countries are introduced as an introduction. Then, indoor thermal comfort and occupants' behaviour in hot-humid climates are explored in depth. Detailed survey results on household energy consumption in various tropical Asian cities are described. Indoor thermal conditions in

both traditional houses and modern houses in these countries are then analyzed in detail. Several good practices of sustainable houses in tropical Asian cities are reviewed in the following part. Then, vulnerability for climate change and urban heat island in Asian growing cities are discussed in the final part. This book will be an essential reading for anyone with an interest in sustainable house design in growing cities of Asia.

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